



SEQUENCE LISTING

(1) GENERAL INFORMATION:

(i) APPLICANT: Hawley Nelson, Pamela

Lan, Jianqing

Shih, Pojen

Jesse, Joel A.

(ii) TITLE OF INVENTION: Peptide-enhanced Cationic Lipid Transfections

(iii) NUMBER OF SEQUENCES: 9

(iv) CORRESPONDENCE ADDRESS:

(A) ADDRESSEE: Greenlee and Winner, P.C.

(B) STREET: 5370 Manhattan Circle, Suite 201

(C) CITY: Boulder

(D) STATE: Colorado

(E) COUNTRY: US

(F) ZIP: 80303

(v) COMPUTER READABLE FORM:

(A) MEDIUM TYPE: Floppy disk

(B) COMPUTER: IBM PC compatible

(C) OPERATING SYSTEM: PC-DOS/MS-DOS

(D) SOFTWARE: PatentIn Release #1.0, Version #1.30

(vi) CURRENT APPLICATION DATA:

(A) APPLICATION NUMBER: US 08/477,354

(B) FILING DATE: 07-JUN-1995

(C) CLASSIFICATION:

(viii) ATTORNEY/AGENT INFORMATION:

(A) NAME: Ferber, Donna M.

(B) REGISTRATION NUMBER: 33,878

(C) REFERENCE/DOCKET NUMBER: 32-95

(ix) TELECOMMUNICATION INFORMATION:

(A) TELEPHONE: (303) 499-8080

(B) TELEFAX: (303) 499-8089

(2) INFORMATION FOR SEQ ID NO:1:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 20 amino acids
- (B) TYPE: amino acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: unknown

(ii) MOLECULE TYPE: peptide

(iii) HYPOTHETICAL: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:

Gly Leu Phe Glu Ala Ile Ala Glu Phe Ile Glu Gly Gly Trp Glu Gly
1 5 10 15

Leu Ile Glu Gly
 20

(2) INFORMATION FOR SEQ ID NO:2:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 20 amino acids
- (B) TYPE: amino acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: unknown

(ii) MOLECULE TYPE: peptide

(iii) HYPOTHETICAL: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:

Gly Leu Phe Lys Ala Ile Ala Lys Phe Ile Lys Gly Gly Trp Lys Gly
1 5 10 15

Leu Ile Lys Gly

(2) INFORMATION FOR SEQ ID NO:3:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 20 amino acids
- (B) TYPE: amino acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: unknown

(ii) MOLECULE TYPE: peptide

(iii) HYPOTHETICAL: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:

Gly Leu Phe Gly Ala Ile Ala Gly Phe Ile Glu Asn Gly Trp Glu Gly
 1 5 10 15

Met Ile Asp Gly
 20

(2) INFORMATION FOR SEQ ID NO:4:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 6 amino acids
- (B) TYPE: amino acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: unknown

(ii) MOLECULE TYPE: peptide

(iii) HYPOTHETICAL: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:

Lys Phe Thr Ile Val Phe
 1 5

(2) INFORMATION FOR SEQ ID NO:5:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 12 amino acids
- (B) TYPE: amino acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: unknown

(ii) MOLECULE TYPE: peptide

(iii) HYPOTHETICAL: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:

Gly Tyr Gly Pro Lys Lys Lys Arg Lys Val Gly Gly
1 5 10

(2) INFORMATION FOR SEQ ID NO:6:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 13 amino acids
- (B) TYPE: amino acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: unknown

(ii) MOLECULE TYPE: peptide

(iii) HYPOTHETICAL: NO

(ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 1..13
- (D) OTHER INFORMATION: /product= "cysteine"

/label= modified

/note= "The C-terminal cysteine is covalently modified by conjugation to spermine."

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:

Gly Tyr Gly Pro Lys Lys Lys Arg Lys Val Gly Gly Cys
1 5 10

(2) INFORMATION FOR SEQ ID NO:7:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 10 amino acids
- (B) TYPE: amino acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: unknown

(ii) MOLECULE TYPE: peptide

(iii) HYPOTHETICAL: NO

(ix) FEATURE:

(A) NAME/KEY: Modified-site

(B) LOCATION: 1..10

(D) OTHER INFORMATION: /product= "cysteine"

/label= modified

/note= "The C-terminal cysteine is modified by covalent conjugation to spermine."

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:7:

Pro Lys Lys Lys Arg Lys Val Gly Gly Cys
1 5 10

(2) INFORMATION FOR SEQ ID NO:8:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 13 amino acids
- (B) TYPE: amino acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: unknown

(ii) MOLECULE TYPE: peptide

(iii) HYPOTHETICAL: NO

(ix) FEATURE:

(A) NAME/KEY: Modified-site

(B) LOCATION: 1..13

(D) OTHER INFORMATION: /product= "cysteine"

/label= modified

/note= "The N-terminal cysteine is modified by covalent conjugation to spermine."

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:8:

Cys Gly Tyr Gly Pro Lys Lys Lys Arg Lys Val Gly Gly
1 5 10

(2) INFORMATION FOR SEQ ID NO:9:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 7 amino acids

(B) TYPE: amino acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: unknown

(ii) MOLECULE TYPE: peptide

(iii) HYPOTHETICAL: NO

(ix) FEATURE:

(A) NAME/KEY: Modified-site

(B) LOCATION: 1..7

(D) OTHER INFORMATION: /product= "cysteine"

/label= modified

/note= "The C-terminal cysteine is modified by covalent conjugation to spermine."

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:9:

Lys Phe Thr Ile Val Phe Cys
1 5